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(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
8 July 2004 (08.07.2004)

PCT

(10) International Publication Number
WO 2004/057715 A3

(51) International Patent Classification?: **E21B 23/06**

CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EI (utility model), EI, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PI, PL, PT (utility model), PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:
PCT/NO2003/000410

(22) International Filing Date: 9 December 2003 (09.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
20025911 10 December 2002 (10.12.2002) NO

(71) Applicant and

(72) Inventor: FREYER, Rune [NO/NO]; Vålandsgaten 12,
N-4010 STAVANGER (NO).

(74) Agent: HÅMØ PATENTBYRÅ ANS; P.O. Box 171,
N-4302 SANDNES (NO).

(81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,

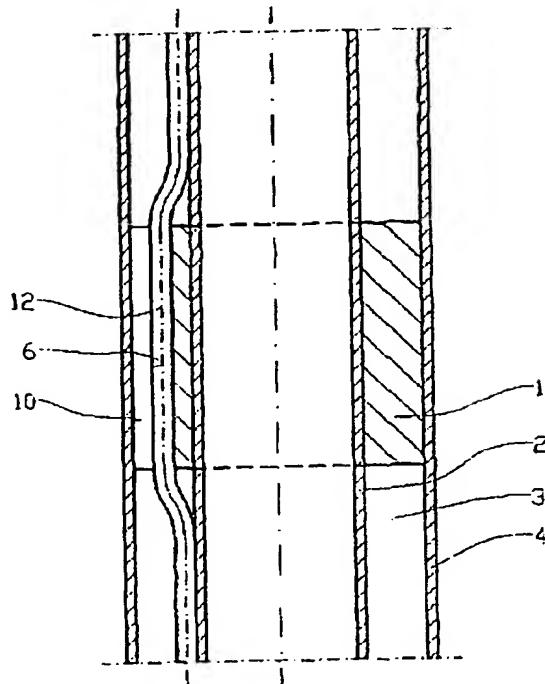
(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BE, BJ, CG, CL, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

-- with international search report

[Continued on next page]

(54) Title: A CABLE DUCT DEVICE IN A SWELLING PACKER



(57) Abstract: A cable duct device in a swellable packer (1) of the kind in which the packer (1) is adapted to be able of sealing an annulus (3), and in which the swellable packer (1) is provided with at least one opening (6) therethrough adapted to constitute a duct for a cable (12).

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- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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(88) Date of publication of the international search report:

14 October 2004

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/NO 2003/000410

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: E21B 23/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI DATA, EPO-INTERNAL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6173788 B1 (JEFFREY J. LEMBECKE ET AL), 16 January 2001 (16.01.2001), See whole document --	1-5
X	US 3899631 A1 (BILLY E. CLARK), 12 August 1975 (12.08.1975), see whole document --	1-5
A	US 6135210 A1 (OLEGARIO S. RIVAS), 24 October 2000 (24.10.2000), column 4, line 61 - column 5, line 20 --	1-5
A	US 2242166 A1 (E. O. BENNETT), 13 May 1941 (13.05.1941), figures 3-4 -----	1-5

Further documents are listed in the continuation of Box C. See patent family annex.

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"&"	document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
18 August 2004	20-08-2004
Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. + 46 8 666 02 86	Authorized officer Kerstin Waczinska/MN Telephone No. + 46 8 782 25 00

INTERNATIONAL SEARCH REPORT

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Information on patent family members

International application No.

PCT/NO 2003/000410

US	6173788	B1	16/01/2001	GB	2336170	A,B	13/10/1999
				GB	9907757	D	00/00/0000
				NO	315437	B	01/09/2003
				NO	991638	A	08/10/1999
<hr/>				US 3899631 A1 12/08/1975 NONE			
<hr/>				US	6135210	A1	24/10/2000
				CA	2277566	A	16/01/2000
				GB	2339816	A,B	09/02/2000
				GB	9915984	D	00/00/0000
<hr/>				US	2242166	A1	13/05/1941
					NONE		
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